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FILE COVERS 1907 - 18 May 2006 VOL 144 ISS 22

FILE LAST UPDATED: 18 May 2006 (20060518/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s tigogenin and pentaglycoside

822 TIGOGENIN

25 PENTAGLYCOSIDE

L1 3 TIGOGENIN AND PENTAGLYCOSIDE

=> d l1 1-3

L1 ANSWER 1 OF 3 CA COPYRIGHT 2006 ACS on STN

AN 143:311939 CA

TI Isolation of tigogenin pentaglycoside from  
Chlorophytum nimonii

IN Vijay, Lakshmi; Pandey, Kartikay; Roy, Raja; Joshi, Bhawani Shankar;  
Kunnath, Padmanabhan Madhusudanan; Chandra, Ramesh; Srivastava, Arvind  
Kumar; Raina, Deepak; Rastogi, Anil Kumar

PA Council of Scientific and Industrial Research, India

SO U.S. Pat. Appl. Publ., 9 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI US 2005209168

A1

20050922

US 2004-806065

20040322

PRAI US 2004-806065

20040322

L1 ANSWER 2 OF 3 CA COPYRIGHT 2006 ACS on STN

AN 143:130099 CA  
 TL. Isolation, antihyperglycemic and hypolipidemic activities of  
 tigogenin pentaglycoside from Chlorophytum nimonii  
 IN Lakshmi, Vijay; Pandey, Kartikay; Roy, Raja; Joshi, Bhawani Shankar;  
 Kunnath, Padmanabhan Madhusudanan; Chandra, Ramesh; Srivastava, Arvind  
 Kumar; Raina, Deepak; Rastogi, Anil Kumar  
 PA Council of Scientific & Industrial Research, India  
 SO PCT Int. Appl., 19 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005063790	A1	20050714	WO 2003-IN475	20031231
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG AU 2003300732 A1 20050721 AU 2003-300732 20031231 PRAI WO 2003-IN475 A 20031231 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L1 ANSWER 3 OF 3 CA COPYRIGHT 2006 ACS on STN  
 AN 107:112675 CA  
 TI A new spirostanol glycoside from Agave cantala  
 AU Sati, O. P.; Rana, U.; Chaukiyal, D. C.; Sholichin, M.  
 CS Dep. Chem., Univ. Garhwal, 246 174, India  
 SO Journal of Natural Products (1987), 50(2), 263-5 941 694  
 CODEN: JNPRDF; ISSN: 0163-3864  
 DT Journal  
 LA English

=> d 11 1-3 an ab

L1 ANSWER 1 OF 3 CA COPYRIGHT 2006 ACS on STN  
 AN 143:311939 CA  
 AB The present invention provides a novel saponin **tigogenin pentaglycoside** isolated from the aerial parts of C. nimonii and a process for the isolation thereof as well as its use in anti-hyperglycemic and hypolipidemic activities. Aerial parts of C. nimonii were extracted with MeOH and the solvent was removed from the extract to give the **tigogenin pentaglycoside**.

L1 ANSWER 2 OF 3 CA COPYRIGHT 2006 ACS on STN  
 AN 143:130099 CA  
 AB The invention discloses a process for the isolation of a **tigogenin pentaglycoside** (I) from the aerial parts of Chlorophytum nimonii. The isolated saponin I was evaluated for its therapeutic usage as an antihyperglycemic and hypolipidemic agent.

L1 ANSWER 3 OF 3 CA COPYRIGHT 2006 ACS on STN  
 AN 107:112675 CA  
 AB A new **tigogenin** based **pentaglycoside** was isolated from the fruits of A. cantala. Acid hydrolysis, permethylation, and 1H and 13C NMR identified the compound as 3-O- $[\beta$ -D-xylopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-galactopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-xylopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 3)- $\beta$ -D-glucopyranosyl]-(25R)-5 $\alpha$ -spirostan-3 $\beta$ -ol.

=> s chlorophytum and nimonii

98 CHLOROPHYTUM  
2 NIMONII  
L2 2 CHLOROPHYTUM AND NIMONII

=> d l2 1-2

L2 ANSWER 1 OF 2 CA COPYRIGHT 2006 ACS on STN  
AN 143:311939 CA  
TI Isolation of tigogenin pentaglycoside from *Chlorophytum nimonii*  
IN Vijay, Lakshmi; Pandey, Kartikay; Roy, Raja; Joshi, Bhawani Shankar; Kunnath, Padmanabhan Madhusudanan; Chandra, Ramesh; Srivastava, Arvind Kumar; Raina, Deepak; Rastogi, Anil Kumar  
PA Council of Scientific and Industrial Research, India  
SO U.S. Pat. Appl. Publ., 9 pp.  
CODEN: USXXCO

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005209168	A1	20050922	US 2004-806065	20040322
PRAI	US 2004-806065		20040322		

L2 ANSWER 2 OF 2 CA COPYRIGHT 2006 ACS on STN  
AN 143:130099 CA  
TI Isolation, antihyperglycemic and hypolipidemic activities of tigogenin pentaglycoside from *Chlorophytum nimonii*  
IN Lakshmi, Vijay; Pandey, Kartikay; Roy, Raja; Joshi, Bhawani Shankar; Kunnath, Padmanabhan Madhusudanan; Chandra, Ramesh; Srivastava, Arvind Kumar; Raina, Deepak; Rastogi, Anil Kumar  
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SO PCT Int. Appl., 19 pp.  
CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005063790	A1	20050714	WO 2003-IN475	20031231
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003300732	A1	20050721	AU 2003-300732	20031231
PRAI	WO 2003-IN475	A	20031231		

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l2 1-2 an ab

L2 ANSWER 1 OF 2 CA COPYRIGHT 2006 ACS on STN  
AN 143:311939 CA  
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L2 ANSWER 2 OF 2 CA COPYRIGHT 2006 ACS on STN

AN 143:130099 CA

AB. The invention discloses a process for the isolation of a tigogenin pentaglycoside (I) from the aerial parts of *Chlorophytum nimonii*. The isolated saponin I was evaluated for its therapeutic usage as an antihyperglycemic and hypolipidemic agent.